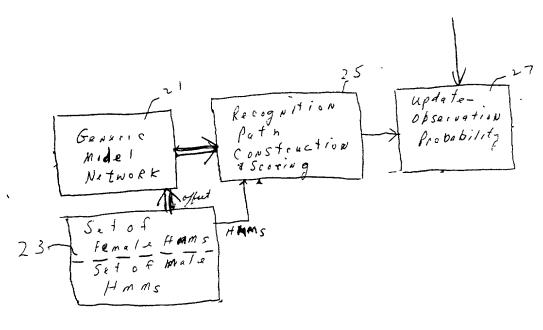


Figure 1: Conventional recognizers require large network to specify multiple HMM set  $\zeta$ 

speach frame t



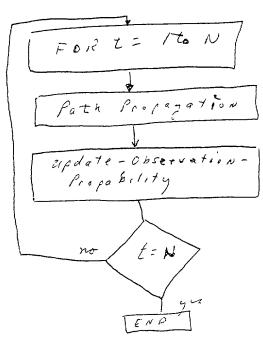


Fig 3